

**Flood Control Project Maintenance**  
**2018 Structure Summary Report**  
**Overall Unit and Item Ratings**

## Lake County Watershed Protection District

### Clover Creek Diversion Structure

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	N
	Encroachments	A
	Culverts: Inlets / Outlets	M
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	A
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	A
	Electric Gate Operators	N
	Manual Gate Operators	A
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	A
	Monolith Joints	N
	Safety	A
	Operation & Maintenance Manual	A

**Flood Control Project Maintenance**  
**Unit Cover Sheet**  
**2018 Structure Inspection Results**

**Lake County Watershed Protection District**

Structure
Clover Creek Diversion Structure

Structure Rating	<a href="#">A</a>
Date of Inspection	<a href="#">7/12/2018</a>
DWR Inspector	<a href="#">Zach Jojola</a>
Accompanied By	<a href="#">Corey Fujitani</a> DWR
	<a href="#">Bob Duffey</a> DWR
	<a href="#">Bryan Reniff</a> Sutter Maintenance Yard

**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Structure 2018

### Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure		07/12/2018 07/12/2018	Zach Jojola

LM Start	0.00	Rating **	N	Issue No.	1
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Photo Documentation	39.177050 °		39.177050 °	
		-122.898750 °		-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_1				
Action/Comments					
Inspector Comments: Clover Creek Diversion Structure has three culverts with two slide gates, and a gate to divert the water during high water season.					

Photo 1 of 1 : ST\_2018\_NA0009\_36\_1\_20180716\_00011.jpg



View of the structure. Summer 2018.

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Vegetation & Obstructions	39.177050 °		39.177050 °	
		-122.898750 °		-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_2				
Action/Comments					
Inspector Comments: The channel had minimal vegetation and scattered obstructions, but the flow is not impeded.					

Photo 1 of 4 : ST\_2018\_NA0009\_36\_2\_20180716\_00012.jpg



View of the vegetation at the outlet of the structure. Summer 2018.

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>2 (cont)</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	

Photo 2 of 4 : ST\_2018\_NA0009\_36\_2\_20180716\_00013.jpg



View of the vegetation downstream of the structure. Summer 2018.

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Structure 2018

### Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure		07/12/2018 07/12/2018	Zach Jojola

LM Start	0.00	Rating **	A	Issue No.	2 (cont)	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Vegetation & Obstructions			39.177050 °		39.177050 °
				-122.898750 °		-122.898750 °
DWR ID	DWR_NA0009_36_t_2012_2					
Action/Comments						
Inspector Comments: The channel had minimal vegetation and scattered obstructions, but the flow is not impeded.						

Photo 3 of 4 : ST\_2018\_NA0009\_36\_2\_20180716\_00014.jpg



View of the vegetation upstream of the structure. Summer 2018.

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>2 (cont)</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	

Photo 4 of 4 : ST\_2018\_NA0009\_36\_2\_20180716\_00018.jpg



View of the minor vegetation at the headwall. Summer 2018.

LM Start	0.00	Rating **	A	Issue No.	3
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Shoaling / Sedimentation	39.177050 °		39.177050 °	
		-122.898750 °		-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_3				
Action/Comments					
Inspector Comments: Minimal shoaling and sedimentation present. Will not impede flow.					

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2018**

**Lake County Watershed Protection District**

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure		07/12/2018 07/12/2018	Zach Jojola

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.177050 °	39.177050 °
				-122.898750 °	-122.898750 °
DWR ID	DWR_NA0009_36_t _ 2012_4				
Action/Comments					
Inspector Comments: There was no visible active erosion or bank caving observed.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	5	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Revetments			39.177050 °	39.177050 °	
				-122.898750 °	-122.898750 °	
DWR ID	DWR_NA0009_36_t _ 2012_5					
Action/Comments						
Inspector Comments: No revetment exists at this structure.						

No Photos

LM Start	0.00	Rating **	A	Issue No.	6	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments			39.177050 °	39.177050 °	
				-122.898750 °	-122.898750 °	
DWR ID	DWR_NA0009_36_t _ 2012_6					
Action/Comments						
Inspector Comments: No trash or debris were present in the channel.						

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Structure 2018

### Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure		07/12/2018 07/12/2018	Zach Jojola

LM Start	0.00	Rating **	M	Issue No.	7
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Inlets / Outlets			39.177050 °	39.177050 °
				-122.898750 °	-122.898750 °
DWR ID	DWR_NA0009_36_t_2012_7				
Action/Comments					
Inspector Comments: Vegetation at the outlet of the structure. Does not appear to impede flow, but should be maintained.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	8	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Culverts: Breaks / Holes / Cracks			39.177050 °		39.177050 °
				-122.898750 °		-122.898750 °
DWR ID	DWR_NA0009_36_t_2012_8					
Action/Comments						
Inspector Comments: There were no visible holes or cracks in the culvert.						

No Photos

LM Start	0.00	Rating **	A	Issue No.	9	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Metal Pipes			39.177050	°	39.177050
				-122.898750	°	-122.898750
DWR ID	DWR_NA0009_36_t_2012_9					
Action/Comments						
Inspector Comments: The metal pipes appeared to be in good condition.						

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2018**

**Lake County Watershed Protection District**

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure		07/12/2018 07/12/2018	Zach Jojola

LM Start	0.00	Rating **	N	Issue No.	10
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Racks			39.177050 °	39.177050 °
				-122.898750 °	-122.898750 °
DWR ID	DWR_NA0060_36_t_2013_10				
Action/Comments					
Inspector Comments: There are no trash racks at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	11	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Flap Gates			39.177050 °		39.177050 °
				-122.898750 °		-122.898750 °
DWR ID	DWR_NA0009_36_t_2012_11					
Action/Comments						
Inspector Comments: Flap gates don't exist at this structure.						

No Photos

LM Start	0.00	Rating **	A	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Sluice/Slide Gates			39.177050 °	39.177050 °
				-122.898750 °	-122.898750 °
DWR ID	DWR_NA0009_36_t_2012_12				
Action/Comments					
Inspector Comments: The slide gates appeared to be in good working condition.					

Photo 1 of 1 : ST\_2018\_NA0009\_36\_12\_20180716\_00016.jpg



View of the slide gates. Summer 2018.

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Structure 2018

### Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure		07/12/2018 07/12/2018	Zach Jojola

LM Start	0.00	Rating **	N	Issue No.	13
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start	End		
Item	Electric Gate Operators	39.177050 °	39.177050 °		
		-122.898750 °	-122.898750 °		
DWR ID	DWR_NA0009_36_t_2012_13				
Action/Comments					
Inspector Comments: Electric gate operators do not exist at this location.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	14
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start	End		
Item	Manual Gate Operators	39.177050 °		39.177050 °	
		-122.898750 °		-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_14				
Action/Comments					
Inspector Comments: The manual gate operators appeared to be operational.					

Photo 1 of 1 : ST\_2018\_NA0009\_36\_14\_20180716\_00017.jpg



View of the manual gate operators. Summer 2018.

LM Start	0.00	Rating **	A	Issue No.	15
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start	End		
Item	Concrete Surfaces	39.177050 °		39.177050 °	
		-122.898750 °		-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_15				
Action/Comments					
Inspector Comments: There was no scaling or cracking on the concrete surfaces.					

No Photos

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2018**

**Lake County Watershed Protection District**

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure		07/12/2018 07/12/2018	Zach Jojola

LM Start	0.00	Rating **	A	Issue No.	16
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Concrete Tilting / Settlement	39.177050 °		39.177050 °	
		-122.898750 °		-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_16				
Action/Comments					
Inspector Comments: There was no sign of settlement or tilting at this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Foundations			39.177050 °	39.177050 °
				-122.898750 °	-122.898750 °
DWR ID	DWR_NA0060_36_t_2013_24				
Action/Comments					
Inspector Comments: There was no scouring or erosion near the structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	18	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Security Fencing			39.177050 °	39.177050 °	
				-122.898750 °	-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_18					
Action/Comments						
Inspector Comments: Security fences do not exist at this location.						

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Structure 2018

### Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure		07/12/2018 07/12/2018	Zach Jojola

LM Start	0.00	Rating **	N	Issue No.	19
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Closure Structures	39.177050 °		39.177050 °	
		-122.898750 °		-122.898750 °	
DWR ID	DWR_NA0009_36_t _ 2012_19				
Action/Comments					
Inspector Comments: Closure structure doesn't exist at this location.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	20
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Rakes			39.177050 °	39.177050 °
				-122.898750 °	-122.898750 °
DWR ID	DWR_NA0009_36_t_2012_20				
Action/Comments					
Inspector Comments: There are no trash rakes at this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	21	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Other Metallic Items			39.177050 °		39.177050 °
				-122.898750 °		-122.898750 °
DWR ID	DWR_NA0009_36_t _ 2012_21					
Action/Comments						
Inspector Comments: Metallic parts appeared to be in a good condition.						

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2018**

**Lake County Watershed Protection District**

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure		07/12/2018 07/12/2018	Zach Jojola

LM Start	0.00	Rating **	N	Issue No.	22
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Monolith Joints	39.177050 °		39.177050 °	
		-122.898750 °		-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_22				
Action/Comments					
Inspector Comments: Monolith joints do not exist at this location.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	23
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Safety	39.177050 °		39.177050 °	
		-122.898750 °		-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_23				
Action/Comments					
Inspector Comments: New steel handrail was placed around the structure. No safety hazard was present.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	17
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start	End		
Item	Operation & Maintenance Manual	39.177050 °		39.177050 °	
		-122.898750 °		-122.898750 °	
DWR ID	DWR_NA0060_36_t_2013_17				
Action/Comments					
Inspector Comments: This district has the O&M manual in the office.					

No Photos

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
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